12/5/88

SEG news release

Society of Exploration Geophysicists

FOR IMMEDIATE RELEASE

November 21, 1988

Contact: David L. Yowell
or Sally Shank
(918) 493-3516

MONTHLY SEISMIC CREW COUNT

(Month of October, 1988)

According to the Society of Exploration Geophysicists' latest report, the number of seismic land crews and marine vessels searching for oil and gas in the U.S. and U.S. waters decreased during the month of October. The land crew total decreased by nine to 142 and the marine crew total remained the same for a net decrease of nine crews to a total of 172.

The October total (172) represents a decrease of 5% from last month, a 12% decrease from October, 1987, **a 9% increase over October, 1986**, a 52% decrease from October, 1985, a 65% decrease from October, 1984, a 65% decrease from October, 1983, and a decrease of 67% from the same month in 1982.

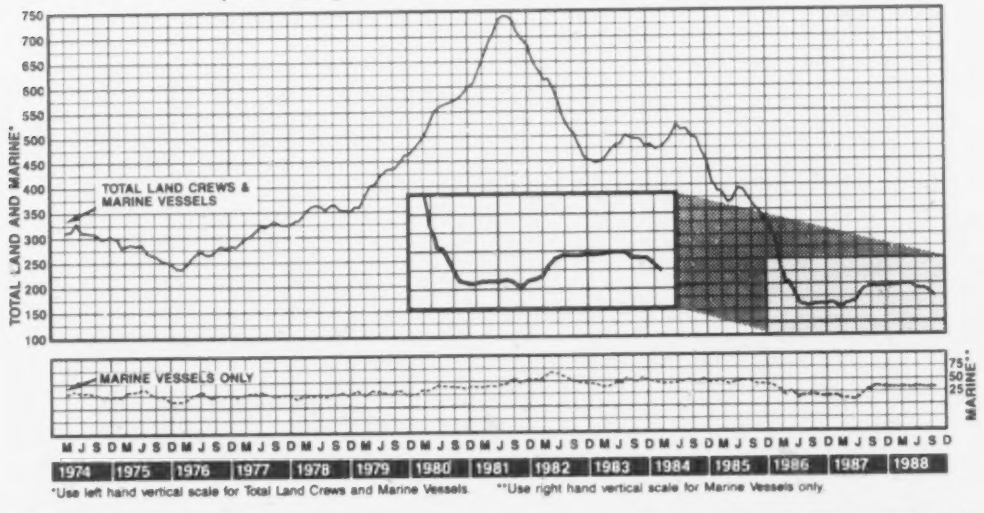
During October, three contractors were operating four of the 128 land crews and two of the twenty-seven marine vessels on a speculative basis.

TOTAL LAND & MARINE CREWS:	This Month	Last Month	Oct.'87	Oct.'86	Oct.'85	Oct.'84	Oct. 83	Oct.'82
	172	181	195	158	357	497	498	516

	LAND CREWS								MARINE VESSELS							
	This Mo.	Last Mo.	Oct. 1987	Oct. 1986	Oct. 1985	Oct. 1984	Oct. 1983	Oct. 1982	This Mo.	Last Mo.	Oct. 1987	Oct. 1986	Oct. 1985	Oct. 1984	Oct. 1983	Oct. 1982
37 Contr's:	128	136	148	119	279	412	410	423	27	25	29	18	38	42	42	42
7 Oil Co's:	14	15	15	17	33	37	38	42	3	4	3	4	7	6	7	8
1 Gov't:	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1
TOTALS	142	151	163	136	312	449	448	465	30	30	32	22	45	48	50	51

SEISMIC CREW COUNT

(The leading indicator of oil and gas exploration activity.)



*Use left hand vertical scale for Total Land Crews and Marine Vessels. **Use right hand vertical scale for Marine Vessels only.

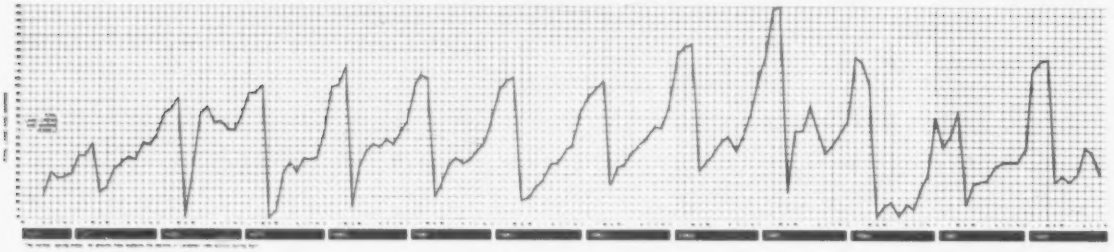
*Results of SEG's Seismic Crew Count of land and marine vessels engaged in exploration for oil and gas in the USA and USA waters, including Alaska, for the month indicated. These figures are compiled from data reported by oil companies operating company-owned seismic exploration crews and vessels and by contract seismic exploration companies. Special significance is attached to seismic crew activity since it is recognized as the leading indicator of all petroleum exploration activity.

CANADIAN SEISMIC CREW COUNT

October, 1988 (September figures in parentheses)

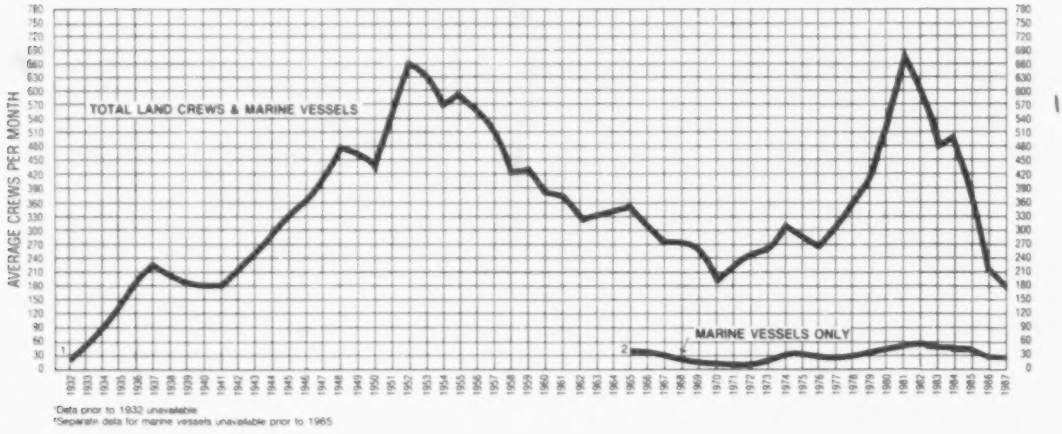
	Land Crews	Marine Crews
22 Contractors:	37 (51)	1 (3)
1 Oil Company:	2 (2)	0 (0)
Totals:	39 (53)	1 (3)

CANADIAN SEISMIC CREW COUNT
(The leading indicator of oil and gas exploration activity.)



SEG's monthly USA Seismic Crew survey was organized in 1974 at the request of the United States' Federal Energy Administration. The report is currently submitted to the U.S. Department of Energy.

HISTORY OF SEISMIC EXPLORATION IN THE UNITED STATES
(Seismic crews searching for oil & gas.)



[1]Data prior to 1932 unavailable.
[2]Separate data for marine vessels unavailable prior to 1965.

SEG news release

Society of Exploration Geophysicists

FOR IMMEDIATE RELEASE

December 7, 1988

Contact: David L. Yowell
or Sally Shank
(918) 493-3516

MONTHLY SEISMIC CREW COUNT

(Month of November, 1988)

According to the Society of Exploration Geophysicists' latest report, the number of seismic land crews and marine vessels searching for oil and gas in the U.S. and U.S. waters decreased dramatically during the month of November. The land crew total decreased by fifteen to 127 and the marine crew total decreased by two for a net decrease of seventeen crews to a total of 155. This total is the lowest since March, 1987 when the number of crews operating on and offshore fell to 150.

The November total (155) represents a decrease of 10% from last month, a 22% decrease from November, 1987, a 2% decrease from November, 1986, a 55% decrease from November, 1985, a 69% decrease from November, 1984, a 69% decrease from November, 1983, and a decrease of 69% from the same month in 1982.

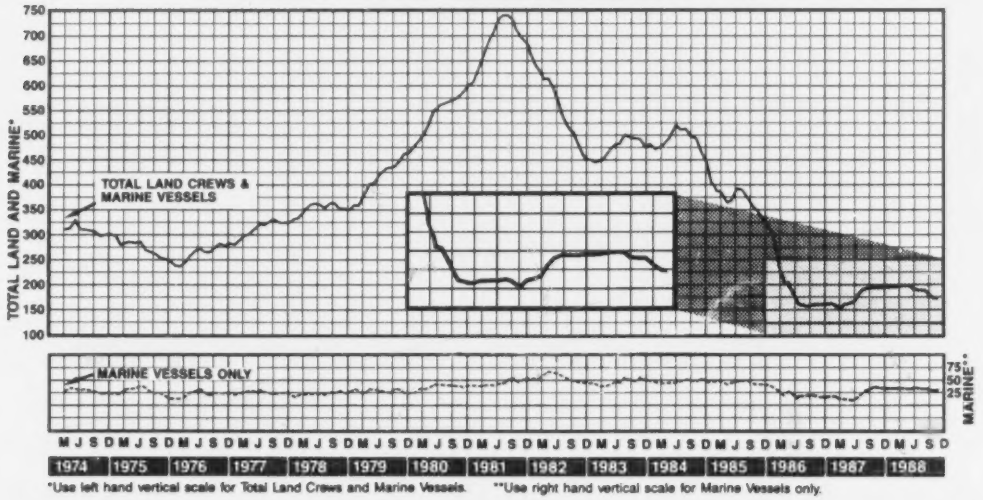
During November, three contractors were operating five of the 114 land crews and two of the twenty-five marine vessels on a speculative basis.

TOTAL LAND & MARINE CREWS:	This Month	Last Month	Nov.'87	Nov.'86	Nov.'85	Nov.'84	Nov. 83	Nov.'82
	155	172	198	158	346	493	495	502

	LAND CREWS								MARINE VESSELS							
	This Mo.	Last Mo.	Nov. 1987	Nov. 1986	Nov. 1985	Nov. 1984	Nov. 1983	Nov. 1982	This Mo.	Last Mo.	Nov. 1987	Nov. 1986	Nov. 1985	Nov. 1984	Nov. 1983	Nov. 1982
35 Contr's:	114	128	155	121	273	407	408	410	25	27	25	15	35	42	42	42
6 Oil Co's:	13	14	15	18	32	37	38	42	3	3	3	4	6	7	7	7
1 Gov't:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
TOTALS	127	142	170	139	305	444	446	452	28	30	28	19	41	49	49	50

SEISMIC CREW COUNT

(The leading indicator of oil and gas exploration activity.)



*Use left hand vertical scale for Total Land Crews and Marine Vessels. **Use right hand vertical scale for Marine Vessels only.

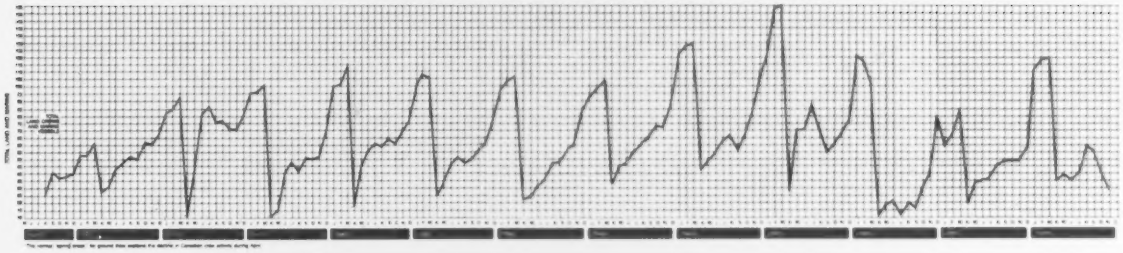
*Results of SEG's Seismic Crew Count of land and marine vessels engaged in exploration for oil and gas in the USA and USA waters, including Alaska, for the month indicated. These figures are compiled from data reported by oil companies operating company-owned seismic exploration crews and vessels and by contract seismic exploration companies. Special significance is attached to seismic crew activity since it is recognized as the leading indicator of all petroleum exploration activity.

CANADIAN SEISMIC CREW COUNT

November, 1988 (October figures in parentheses)

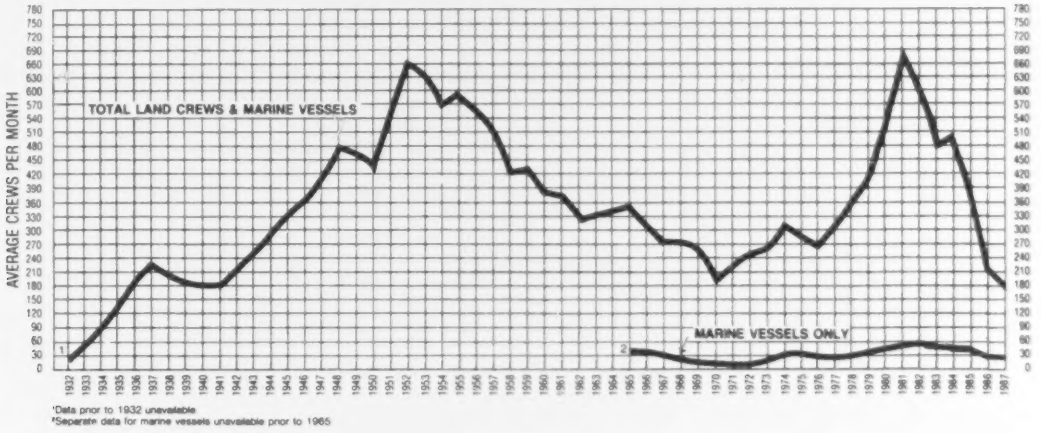
	Land Crews	Marine Crews
18 Contractors:	26 (37)	0 (1)
1 Oil Company:	2 (2)	0 (0)
Totals:	28 (39)	0 (1)

CANADIAN SEISMIC CREW COUNT
(The leading indicator of oil and gas exploration activity.)



SEG's monthly USA Seismic Crew survey was organized in 1974 at the request of the United States' Federal Energy Administration. The report is currently submitted to the U.S. Department of Energy.

HISTORY OF SEISMIC EXPLORATION IN THE UNITED STATES
(Seismic crews searching for oil & gas.)



[1]Data prior to 1932 unavailable
[2]Separate data for marine vessels unavailable prior to 1965

A8912-1

SEG news release

Society of Exploration Geophysicists

FOR IMMEDIATE RELEASE

January 11, 1988

Contact: David L. Yowell
or Sally Shank
(918) 493-3516

MONTHLY SEISMIC CREW COUNT

(Month of December, 1988)

According to the Society of Exploration Geophysicists' latest report, the number of seismic land crews and marine vessels searching for oil and gas in the U.S. and U.S. waters continued to decrease during the month of December. The land crew total decreased by thirteen to 114 and the marine crew total decreased by one for a net decrease of fourteen crews to a total of 141. The seismic crew count survey was instigated in May, 1974, and the previous low was 150 total crews in March of 1974.

The December total (141) represents a decrease of 9% from last month, a 29% decrease from December, 1987, a 10% decrease from December, 1986, a 57% decrease from December, 1985, a 70% decrease from December, 1984, a 71% decrease from December, 1983, and a decrease of 70% from the same month in 1982.

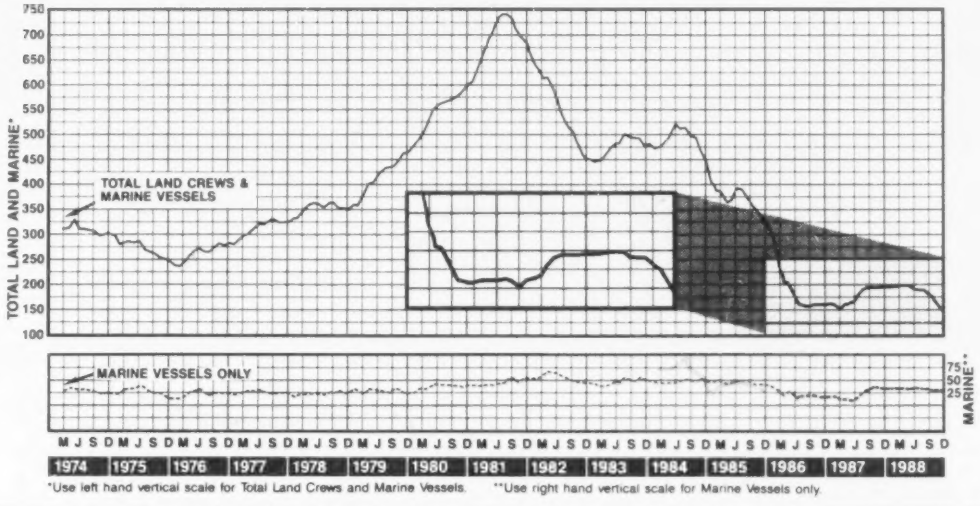
During December, four contractors were operating three of the 100 land crews and three of the twenty-four marine vessels on a speculative basis.

TOTAL LAND & MARINE CREWS:	This Month	Last Month	Dec.'87	Dec.'86	Dec.'85	Dec.'84	Dec. 83	Dec.'82
	141	155	199	157	326	466	493	477

	LAND CREWS								MARINE VESSELS							
	This Mo.	Last Mo.	Dec. 1987	Dec. 1986	Dec. 1985	Dec. 1984	Dec. 1983	Dec. 1982	This Mo.	Last Mo.	Dec. 1987	Dec. 1986	Dec. 1985	Dec. 1984	Dec. 1983	Dec. 1982
31 Contr's:	100	114	157	121	255	378	408	386	24	25	24	15	33	44	41	42
7 Oil Co's:	14	13	15	18	32	36	37	42	3	3	3	3	6	8	7	7
1 Gov't:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTALS	114	127	172	139	287	414	445	428	27	28	27	18	39	52	48	49

SEISMIC CREW COUNT

(The leading indicator of oil and gas exploration activity.)



*Use left hand vertical scale for Total Land Crews and Marine Vessels. **Use right hand vertical scale for Marine Vessels only.

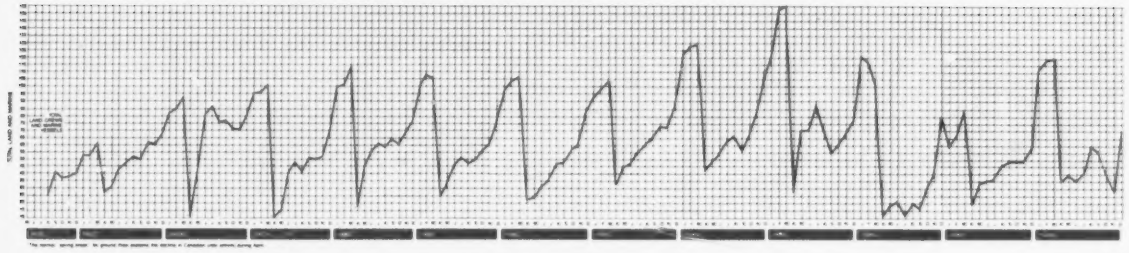
*Results of SEG's Seismic Crew Count of land and marine vessels engaged in exploration for oil and gas in the USA and USA waters, including Alaska, for the month indicated. These figures are compiled from data reported by oil companies operating company-owned seismic exploration crews and vessels and by contract seismic exploration companies. Special significance is attached to seismic crew activity since it is recognized as the leading indicator of all petroleum exploration activity.

CANADIAN SEISMIC CREW COUNT

December, 1988 (November figures in parentheses)

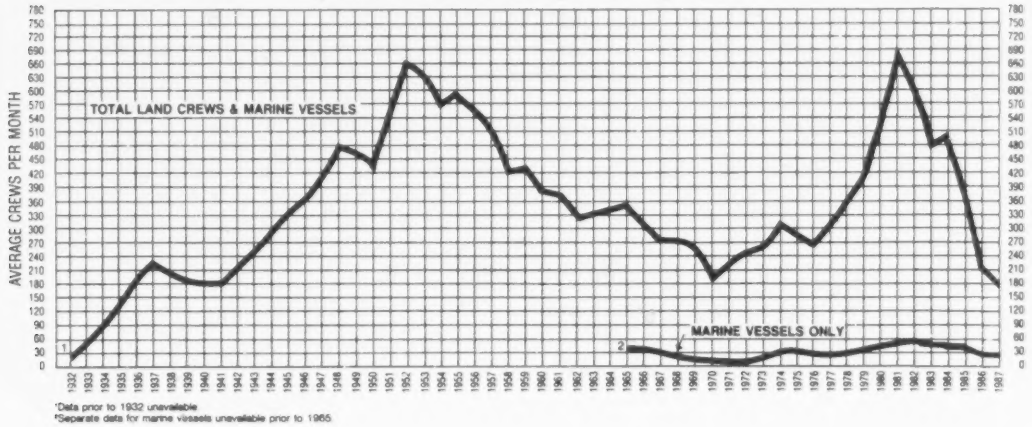
	Land Crews	Marine Crews
32 Contractors:	67 (26)	0 (0)
1 Oil Company:	2 (2)	0 (0)
Totals:	69 (28)	0 (0)

CANADIAN SEISMIC CREW COUNT
(The leading indicator of oil and gas exploration activity.)



SEG's monthly USA Seismic Crew survey was organized in 1974 at the request of the United States' Federal Energy Administration. The report is currently submitted to the U.S. Department of Energy.

HISTORY OF SEISMIC EXPLORATION IN THE UNITED STATES
(Seismic crews searching for oil & gas.)



*Data prior to 1932 unavailable
*Separate data for marine vessels unavailable prior to 1965

A8912-1
2/16/89

SEG news release

Society of Exploration Geophysicists

FOR IMMEDIATE RELEASE

Contact: David L. Yowell
or Sally Shank
(918) 493-3516

MONTHLY SEISMIC CREW COUNT February 8, 1989

(Month of January, 1989)

According to the Society of Exploration Geophysicists' latest report, the number of seismic land crews and marine vessels searching for oil and gas in the U.S. and U.S. waters continued to decrease during the month of January. The land crew total decreased by two to 112 and the marine crew total decreased by two for a net decrease of four crews to a total of 137.

The January total (137) represents a decrease of 3% from last month, a 30% decrease from January, 1988, a 14% decrease from January, 1987, a 56% decrease from January, 1986, a 69% decrease from January, 1985, a 71% decrease from January, 1984, and a decrease of 70% from the same month in 1983.

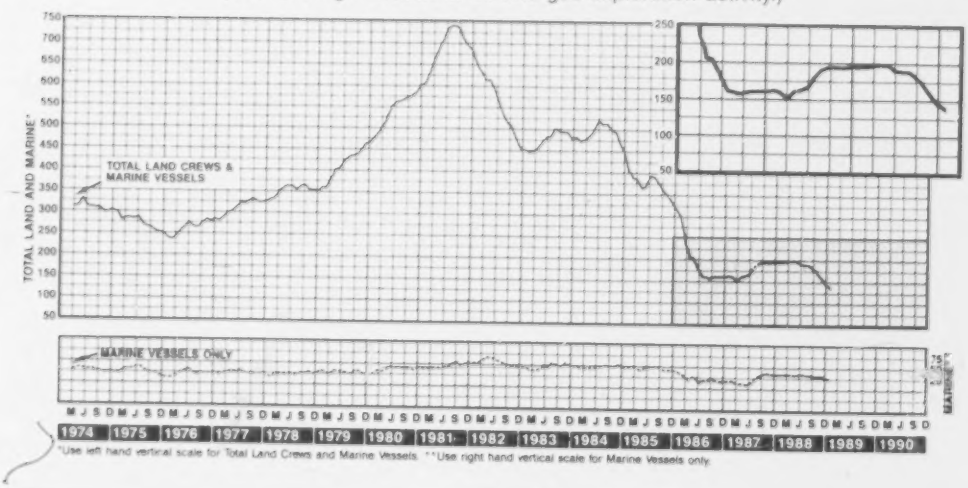
During January, three contractors were operating three of the 99 land crews and one of the twenty-two marine vessels on a speculative basis.

TOTAL LAND & MARINE CREWS:	This Month	Last Month	Jan.'88	Jan.'87	Jan.'86	Jan.'85	Jan. 84	Jan.'83
	137	141	197	160	310	439	477	456

	LAND CREWS								MARINE VESSELS							
	This Mo.	Last Mo.	Jan. 1988	Jan. 1987	Jan. 1986	Jan. 1985	Jan. 1984	Jan. 1983	This Mo.	Last Mo.	Jan. 1988	Jan. 1987	Jan. 1986	Jan. 1985	Jan. 1984	Jan. 1983
34 Contr's:	99	100	152	126	240	358	390	365	22	24	26	15	34	39	42	42
6 Oil Co's:	13	14	15	16	31	35	37	42	3	3	4	3	5	7	8	7
1 Gov't:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTALS	112	114	167	142	271	393	427	407	25	27	30	18	39	46	50	49

SEISMIC CREW COUNT

(The leading indicator of oil and gas exploration activity.)


TOTAL LAND AND MARINE*
TOTAL LAND CREWS & MARINE VESSELS
MARINE VESSELS ONLY
MARINE**
M J S D M J S D M J S D M J S D M J S D M J S D M J S D M J S D M J S D M J S D M J S D M J S D M J S D M J S D
1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990
*Use left hand vertical scale for Total Land Crews and Marine Vessels. **Use right hand vertical scale for Marine Vessels only.

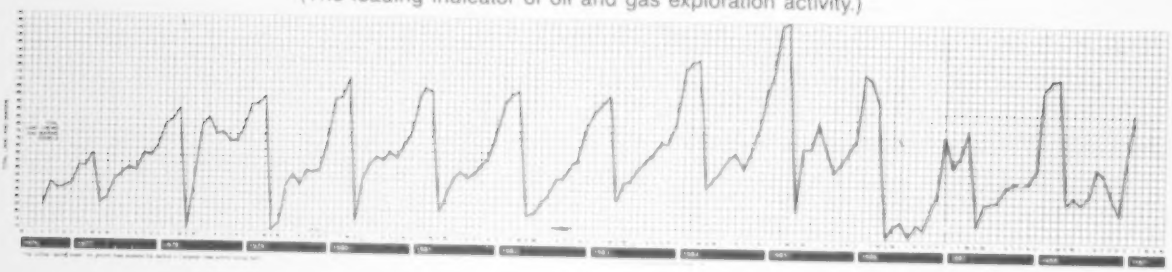
*Results of SEG's Seismic Crew Count of land and marine vessels engaged in exploration for oil and gas in the USA and USA waters, including Alaska, for the month indicated. These figures are compiled from data reported by oil companies operating company-owned seismic exploration crews and vessels and by contract seismic exploration companies. Special significance is attached to seismic crew activity since it is recognized as the leading indicator of all petroleum exploration activity.

CANADIAN SEISMIC CREW COUNT

January, 1989 (December figures in parentheses)

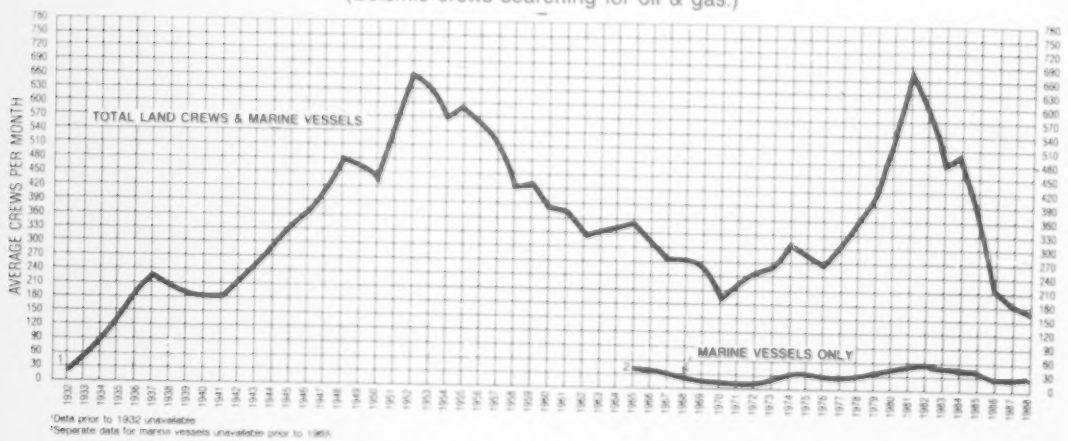
	Land Crews	Marine Crews
33 Contractors:	95 (67)	0 (0)
1 Oil Company:	2 (2)	0 (0)
Totals:	97 (69)	0 (0)

CANADIAN SEISMIC CREW COUNT
(The leading indicator of oil and gas exploration activity.)



SEG's monthly USA Seismic Crew survey was organized in 1974 at the request of the United States' Federal Energy Administration. The report is currently submitted to the U.S. Department of Energy.

HISTORY OF SEISMIC EXPLORATION IN THE UNITED STATES
(Seismic crews searching for oil & gas.)



[1]Data prior to 1932 unavailable.
[2]Separate data for marine vessels unavailable prior to 1955.

A8912-1
3/17/84

SEG news release

Society of Exploration Geophysicists

FOR IMMEDIATE RELEASE

Contact: David L. Yowell
or Sally Shank
(918) 493-3516

MONTHLY SEISMIC CREW COUNT March 10, 1989

(Month of February, 1989)

According to the Society of Exploration Geophysicists' latest report, the number of seismic land crews and marine vessels searching for oil and gas in the U.S. and U.S. waters increased by one crew during the month of February. The land crew total increased by three to 115, but the marine crew total decreased by two for a net increase of one crew to a total of 138.

The February total (138) represents an increase of 1% over last month, a 30% decrease from February, 1988, a 9% decrease from February, 1987, a 53% decrease from February, 1986, a 66% decrease from February, 1985, **a 72% decrease from February, 1984**, and a decrease of 69% from the same month in 1983.

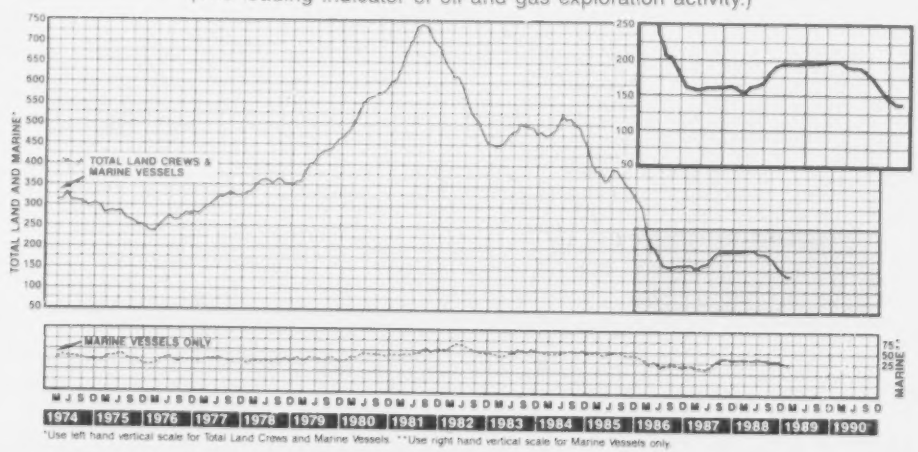
During February, three contractors were operating two of the 102 land crews and two of the twenty marine vessels on a speculative basis.

TOTAL LAND & MARINE CREWS:	This Month	Last Month	Feb.'88	Feb.'87	Feb.'86	Feb.'85	Feb. 84	Feb.'83
	138	137	198	151	295	406	486	451

	LAND CREWS								MARINE VESSELS							
	This Mo.	Last Mo.	Feb. 1988	Feb. 1987	Feb. 1986	Feb. 1985	Feb. 1984	Feb. 1983	This Mo.	Last Mo.	Feb. 1988	Feb. 1987	Feb. 1986	Feb. 1985	Feb. 1984	Feb. 1983
34 Contr's:	102	99	155	119	226	326	396	362	20	22	26	16	34	38	45	40
6 Oil Co's:	13	13	13	13	30	34	37	42	3	3	4	3	5	7	8	7
1 Gov't:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTALS	115	112	168	132	256	360	433	404	23	25	30	19	39	46	53	47

SEISMIC CREW COUNT

(The leading indicator of oil and gas exploration activity.)


TOTAL LAND AND MARINE*
TOTAL LAND CREWS & MARINE VESSELS
MARINE VESSELS ONLY
MARINE**
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1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990

*Use left hand vertical scale for Total Land Crews and Marine Vessels. **Use right hand vertical scale for Marine Vessels only.

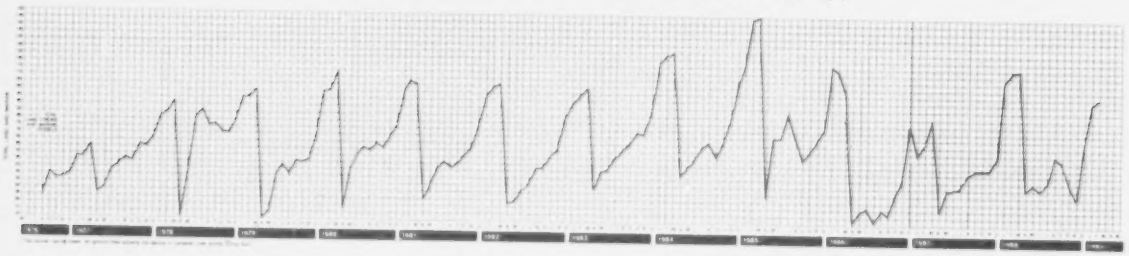
*Results of SEG's Seismic Crew Count of land and marine vessels engaged in exploration for oil and gas in the USA and USA waters, including Alaska, for the month indicated. These figures are compiled from data reported by oil companies operating company-owned seismic exploration crews and vessels and by contract seismic exploration companies. Special significance is attached to seismic crew activity since it is recognized as the leading indicator of all petroleum exploration activity.

CANADIAN SEISMIC CREW COUNT

February, 1989 (January figures in parentheses)

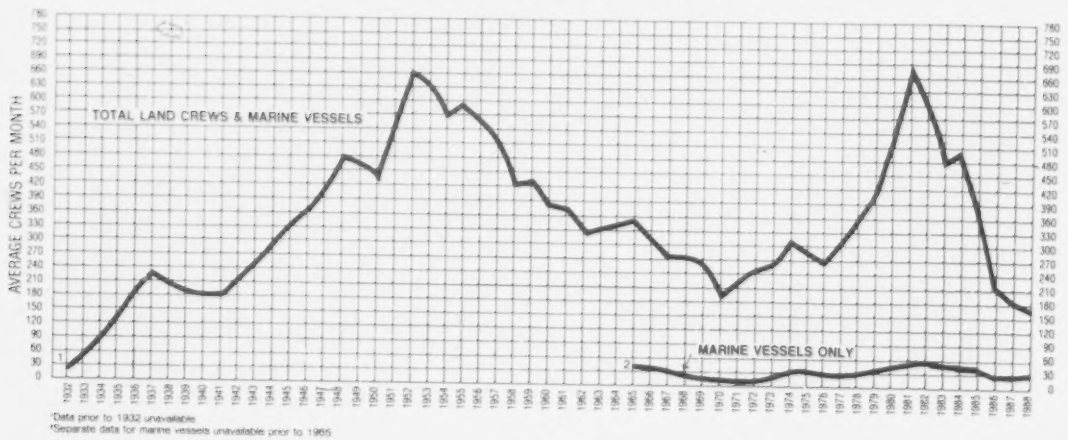
	Land Crews	Marine Crews
32 Contractors:	99 (95)	0 (0)
1 Oil Company:	2 (2)	0 (0)
Totals:	101 (97)	0 (0)

CANADIAN SEISMIC CREW COUNT
(The leading indicator of oil and gas exploration activity.)



SEG's monthly USA Seismic Crew survey was organized in 1974 at the request of the United States' Federal Energy Administration. The report is currently submitted to the U.S. Department of Energy.

HISTORY OF SEISMIC EXPLORATION IN THE UNITED STATES
(Seismic crews searching for oil & gas.)



[1]Data prior to 1932 unavailable.
[2]Separate data for marine vessels unavailable prior to 1955.

189124
4/25/89

SEG news release

Society of Exploration Geophysicists

FOR IMMEDIATE RELEASE

April 17, 1989

Contact: David L. Yowell
or Sally Shank
(918) 493-3516

MONTHLY SEISMIC CREW COUNT

(Month of March, 1989)

According to the Society of Exploration Geophysicists' latest report, the number of seismic land crews and marine vessels searching for oil and gas in the U.S. and U.S. waters decreased by nine crews during the month of March. The land crew total decreased by seven to 108, and the marine crew total decreased by two for a net decrease of nine crew to a total of 129.

The March total (129) represents a decrease of 7% from last month, a 34% decrease from March, 1988, a 14% decrease from March, 1987, a 46% decrease from March, 1986, a 67% decrease from March, 1985, a 73% decrease from March, 1984, and a decrease of 71% from the same month in 1983.

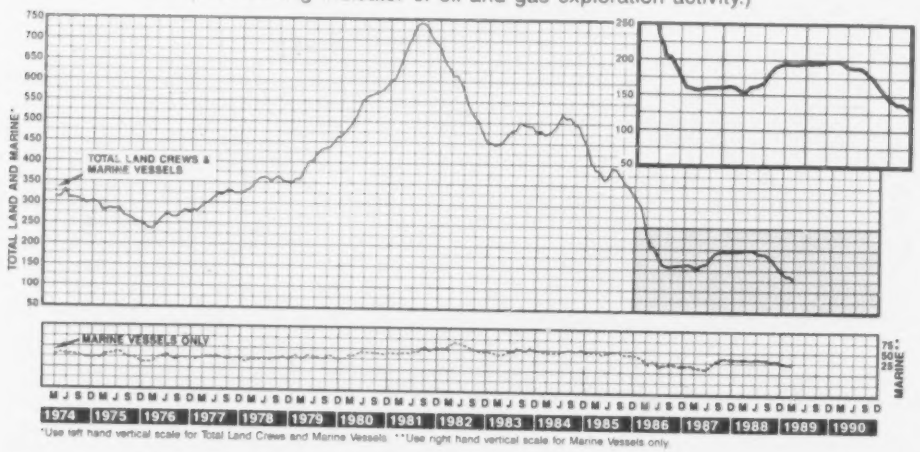
During March, three contractors were operating two of the 99 land crews and two of the eighteen marine vessels on a speculative basis.

TOTAL LAND & MARINE CREWS:	This Month	Last Month	Mar.'88	Mar.'87	Mar.'86	Mar.'85	Mar. 84	Mar.'83
	129	138	194	150	240	388	471	447

	LAND CREWS								MARINE VESSELS							
	This Mo.	Last Mo.	Mar 1988	Mar. 1987	Mar. 1986	Mar. 1985	Mar. 1984	Mar 1983	This Mo.	Last Mo.	Mar. 1988	Mar. 1987	Mar. 1986	Mar. 1985	Mar. 1984	Mar. 1983
32 Contr's:	99	102	150	118	185	306	386	360	18	20	25	15	23	40	39	38
5 Oil Co's:	9	13	15	14	27	34	38	42	3	3	4	3	5	7	8	7
1 Gov't:	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
TOTALS	108	115	165	132	212	340	424	402	21	23	29	18	28	48	47	45

SEISMIC CREW COUNT

(The leading indicator of oil and gas exploration activity.)


TOTAL LAND AND MARINE*
TOTAL LAND CREWS & MARINE VESSELS
MARINE VESSELS ONLY
MARINE**
M J S D M J S D M J S D M J S D M J S D M J S D M J S D M J S D M J S D M J S D M J S D M J S D M J S D M J S D
1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990

*Use left hand vertical scale for Total Land Crews and Marine Vessels. **Use right hand vertical scale for Marine Vessels only.

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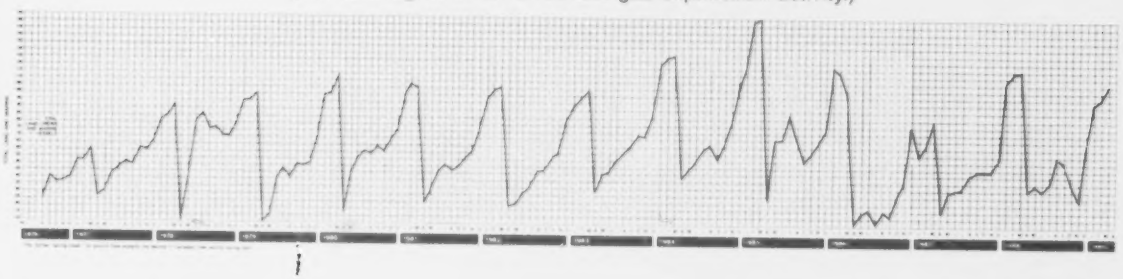
SEG Headquarters Office: Box 702740, Tulsa, Oklahoma 74170-2740, Tel. (918) 493-3516

CANADIAN SEISMIC CREW COUNT

March, 1989 (February figures in parentheses)

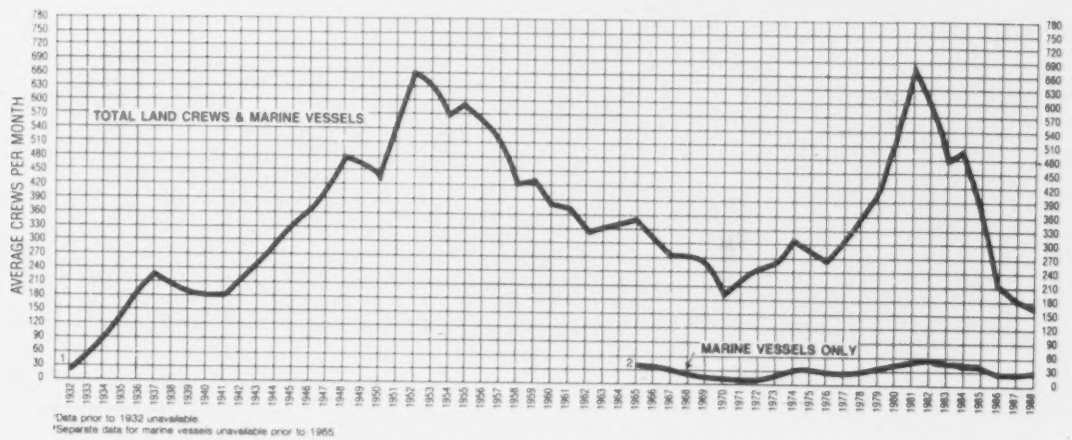
	Land Crews	Marine Crews
33 Contractors:	108 (99)	0 (0)
1 Oil Company:	2 (2)	0 (0)
Totals:	110 (101)	0 (0)

CANADIAN SEISMIC CREW COUNT
(The leading indicator of oil and gas exploration activity.)



SEG's monthly USA Seismic Crew survey was organized in 1974 at the request of the United States' Federal Energy Administration. The report is currently submitted to the U.S. Department of Energy.

HISTORY OF SEISMIC EXPLORATION IN THE UNITED STATES
(Seismic crews searching for oil & gas.)



[1]Data prior to 1932 unavailable.
[2]Separate data for marine vessels unavailable prior to 1965.

A8912-
5-25-89

SEG news release

Society of Exploration Geophysicists

FOR IMMEDIATE RELEASE

Contact: David L. Yowell
or Sally Shank
(918) 493-3516

MONTHLY SEISMIC CREW COUNT May 9, 1989

(Month of April, 1989)

According to the Society of Exploration Geophysicists' latest report, the number of seismic land crews and marine vessels searching for oil and gas in the U.S. and U.S. waters increased by two crews during the month of April. The land crew total increased by one to 109, and the marine crew total increased by one for a net increase of two crews to a total of 131.

The April total (131) represents an increase of 2% over last month, a 33% decrease from April, 1988, a 20% decrease from April, 1987, a 36% decrease from April, 1986, a 66% decrease from April, 1985, a 72% decrease from April, 1984, and a decrease of 71% from the same month in 1983.

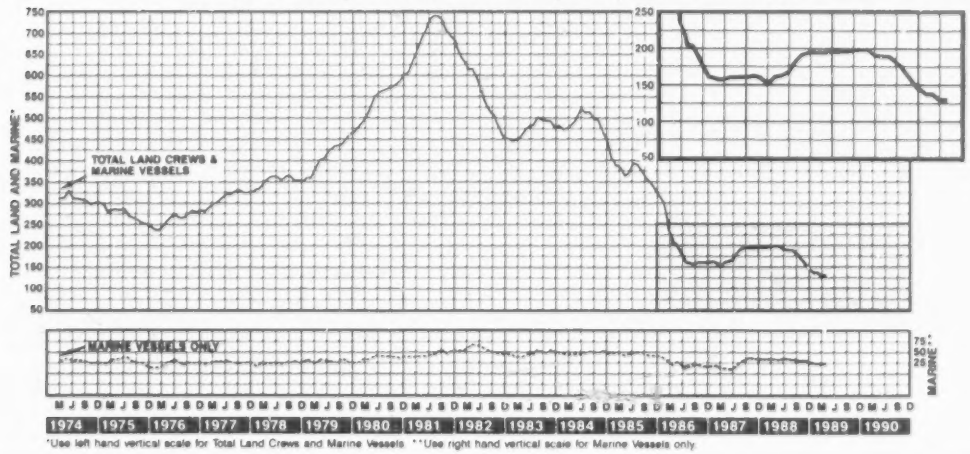
During April, two contractors were operating five of the 99 land crews and one of the nineteen marine vessels on a speculative basis.

TOTAL LAND & MARINE CREWS:	This Month 131	Last Month 129	Apr.'88 196	Apr.'87 164	Apr.'86 205	Apr.'85 383	Apr. 84 473	Apr.'83 449

	LAND CREWS								MARINE VESSELS							
	This Mo.	Last Mo.	Apr. 1988	Apr. 1987	Apr. 1986	Apr. 1985	Apr. 1984	Apr 1983	This Mo.	Last Mo.	Apr. 1988	Apr. 1987	Apr. 1986	Apr. 1985	Apr. 1984	Apr. 1983
36 Contr's:	99	99	152	131	159	304	385	369	19	18	24	16	15	39	42	32
6 Oil Co's:	10	9	15	14	26	32	38	41	3	3	4	3	5	7	8	7
1 Gov't:	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0
TOTALS	109	108	167	145	185	336	423	410	22	21	29	19	20	47	50	39

SEISMIC CREW COUNT

(The leading indicator of oil and gas exploration activity.)


TOTAL LAND CREWS & MARINE VESSELS
MARINE VESSELS ONLY
TOTAL LAND AND MARINE*
MARINE**
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1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990

*Use left hand vertical scale for Total Land Crews and Marine Vessels. **Use right hand vertical scale for Marine Vessels only.

*Results of SEG's Seismic Crew Count of land and marine vessels engaged in exploration for oil and gas in the USA and USA waters, including Alaska, for the month indicated. These figures are compiled from data reported by oil companies operating company-owned seismic exploration crews and vessels and by contract seismic exploration companies. Special significance is attached to seismic crew activity since it is recognized as the leading indicator of all petroleum exploration activity.

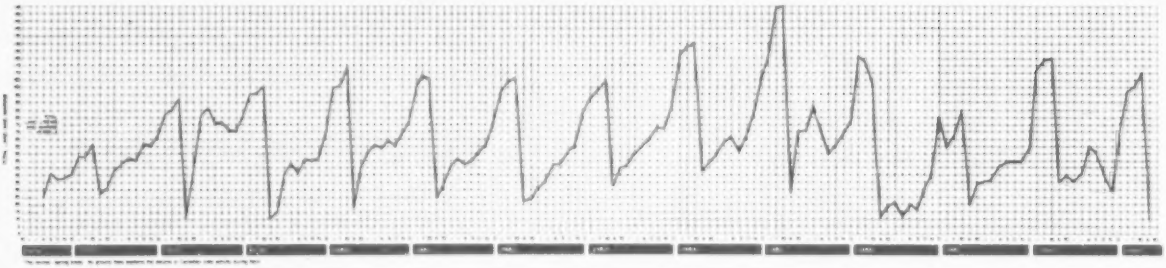
CANADIAN SEISMIC CREW COUNT

April, 1989 (March figures in parentheses)

	Land Crews	Marine Crews
8 Contractors:	8 (108)	0 (0)
0 Oil Company:	0 (2)	0 (0)
Totals:	8 (110)	0 (0)

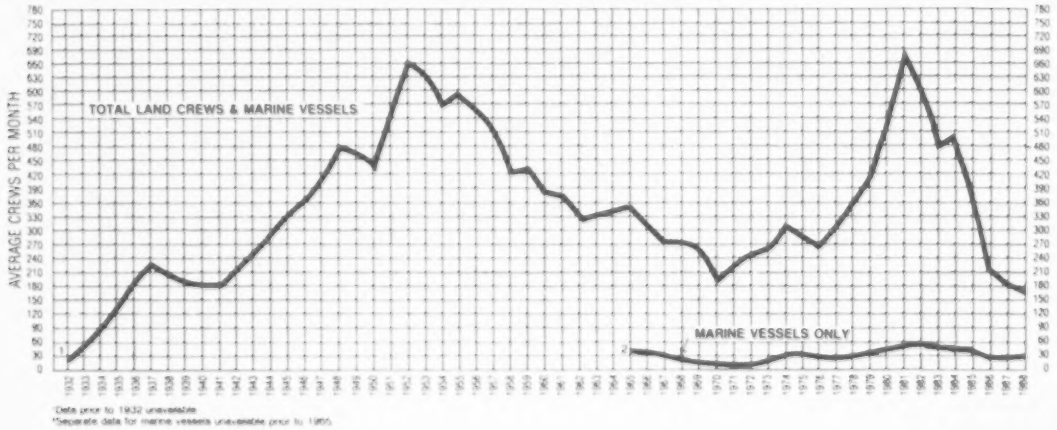
NOTE: "Spring Break" for ground thaw explains the decline in Canadian Crew Activity during April.

CANADIAN SEISMIC CREW COUNT
(The leading indicator of oil and gas exploration activity.)



SEG's monthly USA Seismic Crew survey was organized in 1974 at the request of the United States' Federal Energy Administration. The report is currently submitted to the U.S. Department of Energy.

HISTORY OF SEISMIC EXPLORATION IN THE UNITED STATES
(Seismic crews searching for oil & gas.)



A8912-1
6/20/89

SEG news release

Society of Exploration Geophysicists

FOR IMMEDIATE RELEASE

Contact: David L. Yowell
or Sally Shank
(918) 493-3516

MONTHLY SEISMIC CREW COUNT June 9, 1989

(Month of May, 1989)

According to the Society of Exploration Geophysicists' latest report, the number of seismic land crews and marine vessels searching for oil and gas in the U.S. and U.S. waters decreased by five crews during the month of May. The land crew total decreased by five to 104, and the marine crew total remained the same for a net decrease of five crews to a total of 126. Several contractors mentioned excessive rain as a reason for the downturn.

The May total (126) represents an decrease of 4% over last month, a 35% decrease from May, 1988, a 24% decrease from May, 1987, a 34% decrease from May, 1986, a 65% decrease from May, 1985, **a 74% decrease from May, 1984**, and a decrease of 72% from the same month in 1983.

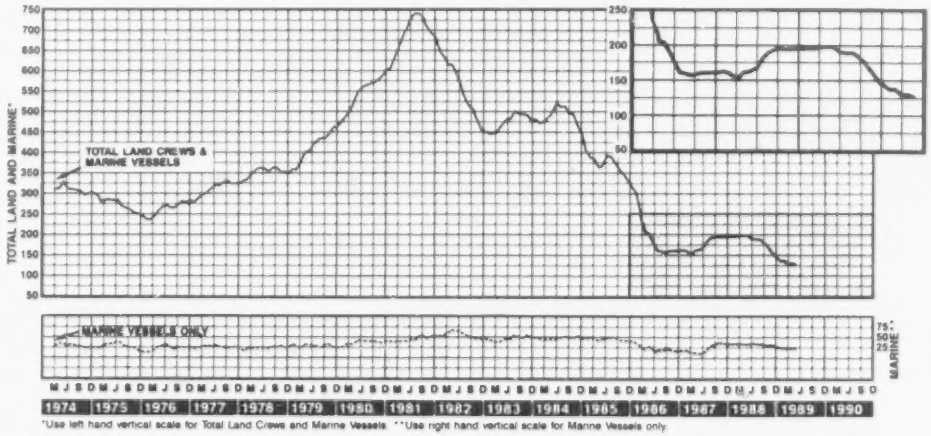
During May, two contractors were operating five of the 95 land crews and none of the twenty-two marine vessels on a speculative basis.

TOTAL LAND & MARINE CREWS:	This Month	Last Month	May '88	May '87	May '86	May '85	May 84	May '83
	126	131	194	166	191	364	490	455

	LAND CREWS								MARINE VESSELS							
	This Mo.	Last Mo.	May 1988	May 1987	May 1986	May 1985	May 1984	May 1983	This Mo.	Last Mo.	May 1988	May 1987	May 1986	May 1985	May 1984	May 1983
34 Contr's:	95	99	149	131	148	293	406	375	19	19	25	17	14	35	38	33
5 Oil Co's:	9	10	15	15	24	30	38	41	3	3	4	3	5	5	8	6
1 Gov't:	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0
TOTALS	104	109	164	146	172	323	444	416	22	22	30	20	19	41	46	39

SEISMIC CREW COUNT

(The leading indicator of oil and gas exploration activity.)


TOTAL LAND AND MARINE*
TOTAL LAND CREWS & MARINE VESSELS
MARINE VESSELS ONLY
MARINE**
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1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990

*Use left hand vertical scale for Total Land Crews and Marine Vessels. **Use right hand vertical scale for Marine Vessels only.

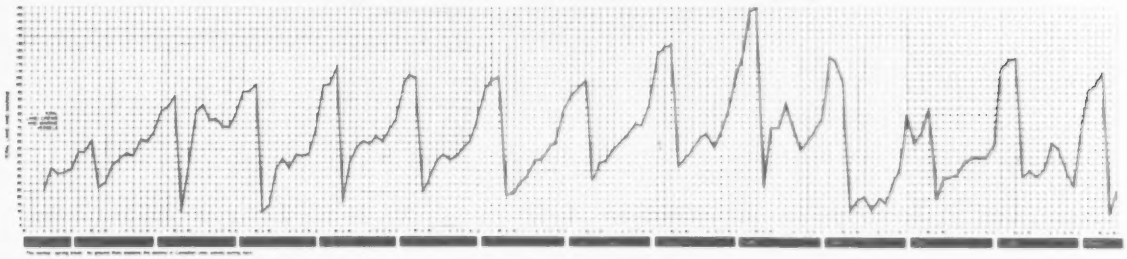
*Results of SEG's Seismic Crew Count of land and marine vessels engaged in exploration for oil and gas in the USA and USA waters, including Alaska, for the month indicated. These figures are compiled from data reported by oil companies operating company-owned seismic exploration crews and vessels and by contract seismic exploration companies. Special significance is attached to seismic crew activity since it is recognized as the leading indicator of all petroleum exploration activity.

CANADIAN SEISMIC CREW COUNT

May, 1989 (April figures in parentheses)

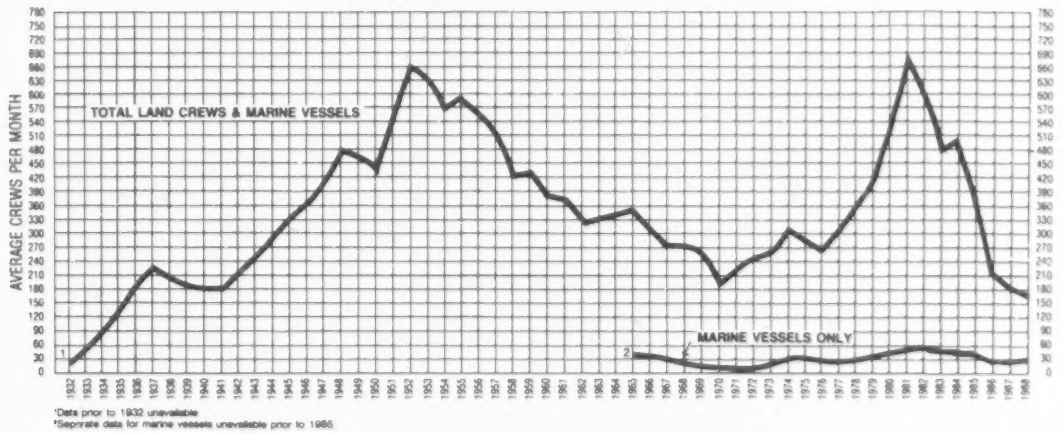
	Land Crews	Marine Crews
17 Contractors:	25 (8)	0 (0)
1 Oil Company:	1 (0)	0 (0)
Totals:	26 (8)	0 (0)

CANADIAN SEISMIC CREW COUNT
(The leading indicator of oil and gas exploration activity.)



SEG's monthly USA Seismic Crew survey was organized in 1974 at the request of the United States' Federal Energy Administration. The report is currently submitted to the U.S. Department of Energy.

HISTORY OF SEISMIC EXPLORATION IN THE UNITED STATES
(Seismic crews searching for oil & gas.)



*Data prior to 1932 unavailable
*Separate data for marine vessels unavailable prior to 1986

SEG news release

Society of Exploration Geophysicists

FOR IMMEDIATE RELEASE

Contact: David L. Yowell
or Sally Shank
(918) 493-3516

MONTHLY SEISMIC CREW COUNT

July 7, 1989

(Month of June, 1989)

According to the Society of Exploration Geophysicists' latest report, the number of seismic land crews and marine vessels searching for oil and gas in the U.S. and U.S. waters decreased by two crews during the month of June. The land crew total decreased by two to 102, and the marine crew total remained the same for a net decrease of two crews to a total of 124.

The June total (124) represents an decrease of 2% from last month, a 34% decrease from June, 1988, a 27% decrease from June, 1987, a 31% decrease from June, 1986, a 67% decrease from June, 1985, **a 75% decrease from June, 1984**, and a decrease of 74% from the same month in 1983.

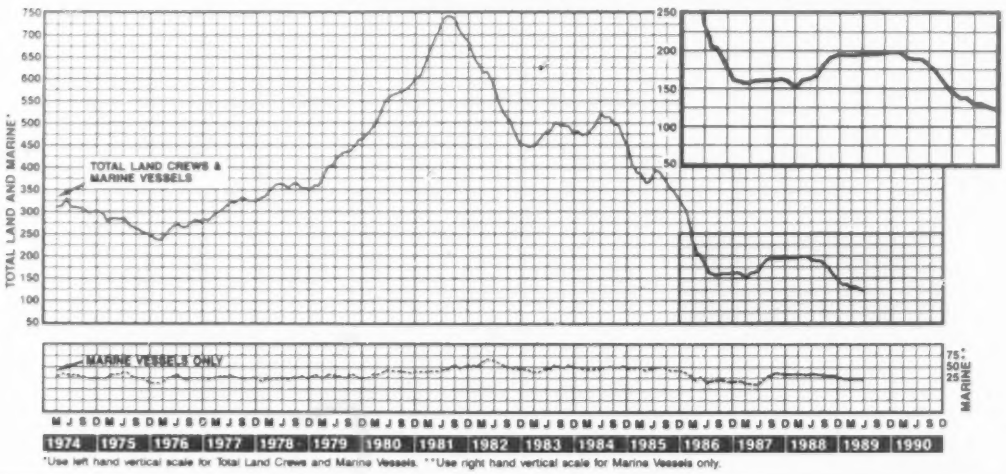
During June, two contractors were operating five of the 92 land crews and none of the eighteen marine vessels on a speculative basis.

TOTAL LAND & MARINE CREWS:	This Month	Last Month	June'88	June'87	June'86	June'85	June 84	June'83
	124	126	188	169	180	371	500	471

	LAND CREWS								MARINE VESSELS							
	This Mo.	Last Mo.	June 1988	June 1987	June 1986	June 1985	June 1984	June 1983	This Mo.	Last Mo.	June 1988	June 1987	June 1986	June 1985	June 1984	June 1983
35 Contr's:	92	95	143	133	140	294	418	387	18	19	25	19	14	40	38	37
6 Oil Co's:	10	9	15	14	22	30	37	41	3	3	4	3	4	6	7	6
1 Gov't:	0	0	0	0	0	0	0	0	1	0	1	0	0	1	0	0
TOTALS	102	104	158	147	162	324	455	428	22	22	30	22	18	47	45	43

SEISMIC CREW COUNT

(The leading indicator of oil and gas exploration activity.)


TOTAL LAND AND MARINE*
TOTAL LAND CREWS & MARINE VESSELS
MARINE VESSELS ONLY
MARINE**
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1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990

*Use left hand vertical scale for Total Land Crews and Marine Vessels. **Use right hand vertical scale for Marine Vessels only.

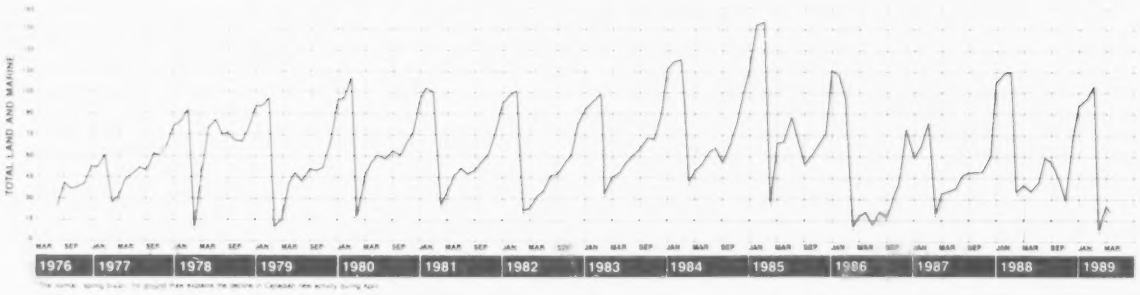
*Results of SEG's Seismic Crew Count of land and marine vessels engaged in exploration for oil and gas in the USA and USA waters, including Alaska, for the month indicated. These figures are compiled from data reported by oil companies operating company-owned seismic exploration crews and vessels and by contract seismic exploration companies. Special significance is attached to seismic crew activity since it is recognized as the leading indicator of all petroleum exploration activity.

CANADIAN SEISMIC CREW COUNT

June, 1989 (May figures in parentheses)

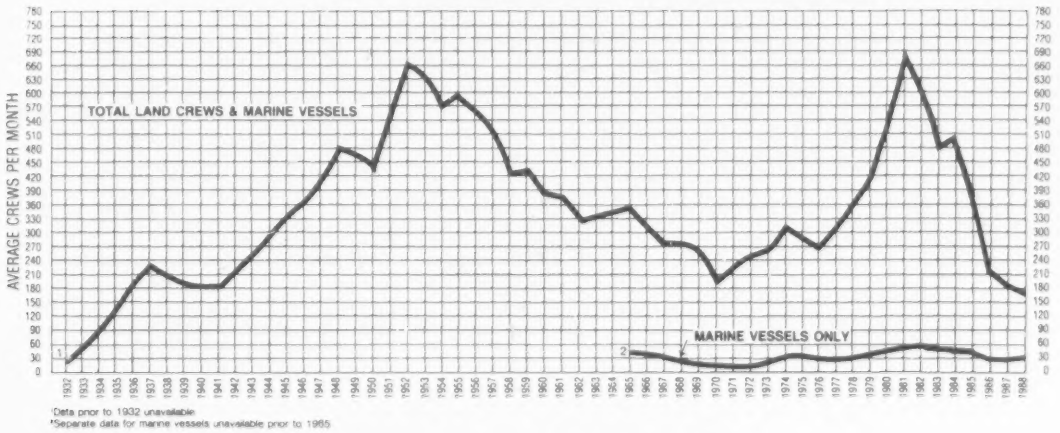
	Land Crews	Marine Crews
19 Contractors:	20 (25)	0 (0)
1 Oil Company:	1 (1)	0 (0)
Totals:	21 (26)	0 (0)

CANADIAN SEISMIC CREW COUNT
(The leading indicator of oil and gas exploration activity.)



SEG's monthly USA Seismic Crew survey was organized in 1974 at the request of the United States' Federal Energy Administration. The report is currently submitted to the U.S. Department of Energy.

HISTORY OF SEISMIC EXPLORATION IN THE UNITED STATES
(Seismic crews searching for oil & gas.)



[1]Data prior to 1932 unavailable
[2]Separate data for marine vessels unavailable prior to 1965

A8912-1

SEG news release

Society of Exploration Geophysicists

FOR IMMEDIATE RELEASE

Contact: David L. Yowell
or Sally Shank
(918) 493-3516

MONTHLY SEISMIC CREW COUNT August 9, 1989

(Month of July, 1989)

According to the Society of Exploration Geophysicists' latest report, the number of seismic land crews and marine vessels searching for oil and gas in the U.S. and U.S. waters increased by five crews during the month of July. The land crew total increased by five to 107, and the marine crew total remained the same for a net increase of five crews to a total of 129.

The July total (129) represents an increase of 4% over last month, a 31% decrease from July, 1988, a 30% decrease from July, 1987, an 18% decrease from July, 1986, a 68% decrease from July, 1985, **a 76% decrease from July, 1984**, and a decrease of 73% from the same month in 1983.

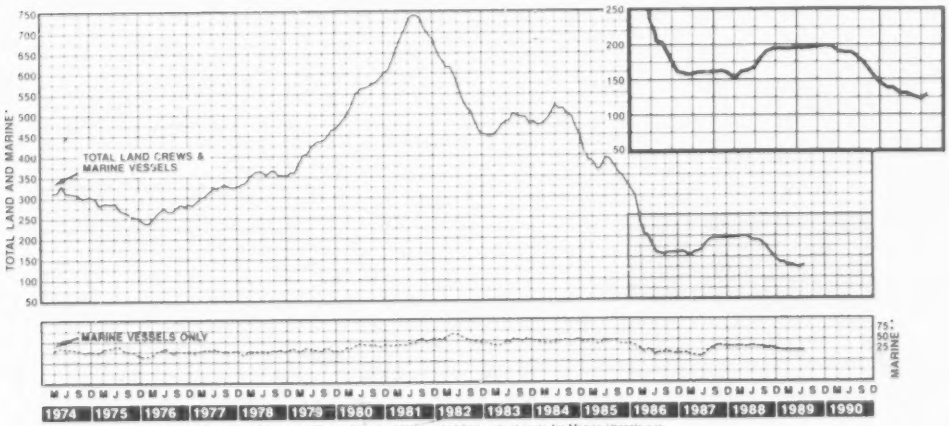
During July, two contractors were operating two of the 98 land crews and none of the eighteen marine vessels on a speculative basis.

TOTAL LAND & MARINE CREWS:	This Month	Last Month	July'88	July'87	July'86	July'85	July 84	July'83
	129	124	186	183	158	397	529	483

	LAND CREWS								MARINE VESSELS							
	This Mo.	Last Mo.	July 1988	July 1987	July 1986	July 1985	July 1984	July 1983	This Mo.	Last Mo.	July 1988	July 1987	July 1986	July 1985	July 1984	July 1983
35 Contr's:	98	92	143	145	121	317	445	397	18	18	23	21	17	41	39	41
5 Oil Co's:	9	10	15	14	17	33	37	40	3	3	4	3	3	6	7	5
1 Gov't:	0	0	0	0	0	0	0	0	1	1	1	0	0	0	1	0
TOTALS	107	102	158	159	138	350	482	437	22	22	28	24	20	47	47	46

SEISMIC CREW COUNT

(The leading indicator of oil and gas exploration activity.)


TOTAL LAND AND MARINE*
TOTAL LAND CREWS & MARINE VESSELS
MARINE VESSELS ONLY
MARINE**
1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990
*Use left hand vertical scale for Total Land Crews and Marine Vessels. **Use right hand vertical scale for Marine Vessels only.

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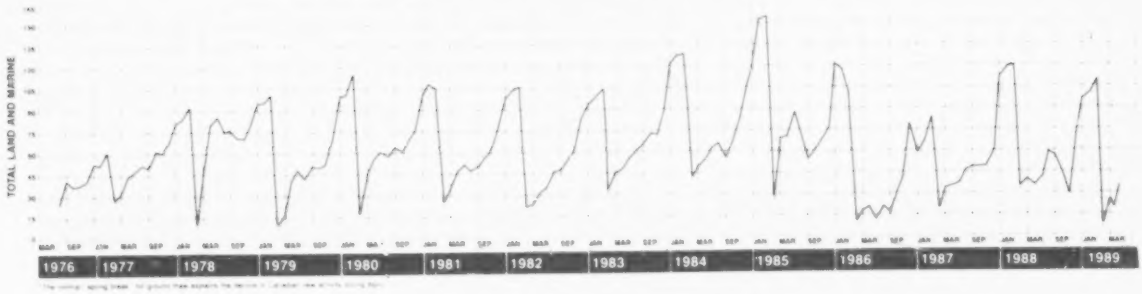
CANADIAN SEISMIC CREW COUNT

July, 1989 (June figures in parentheses)

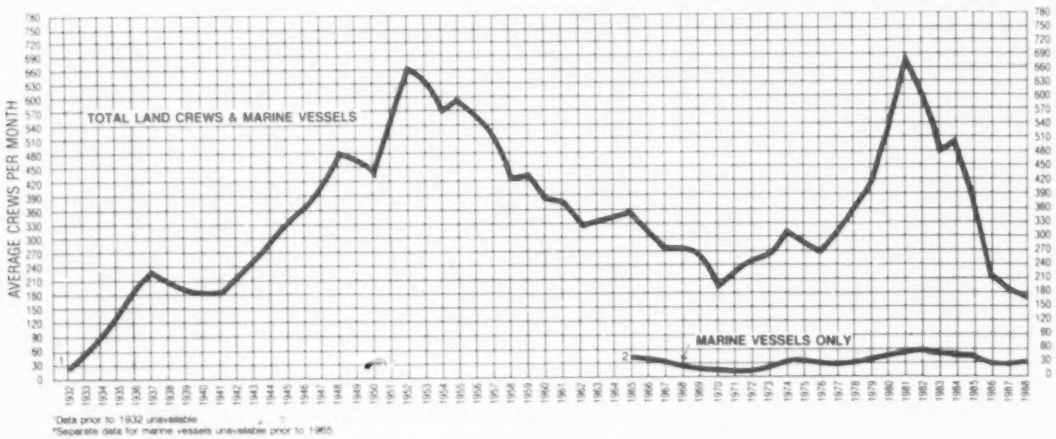
	Land Crews	Marine Crews
20 Contractors:	34 (20)	0 (0)
1 Oil Company:	1 (1)	0 (0)
Totals:	35 (21)	0 (0)

CANADIAN SEISMIC CREW COUNT
(The leading indicator of oil and gas exploration activity.)



SEG's monthly USA Seismic Crew survey was instigated in 1974 at the request of the United States' Federal Energy Administration. The report is currently submitted to the U.S. Department of Energy.

HISTORY OF SEISMIC EXPLORATION IN THE UNITED STATES
(Seismic crews searching for oil & gas.)


AVERAGE CREWS PER MONTH
TOTAL LAND CREWS & MARINE VESSELS
MARINE VESSELS ONLY
*Data prior to 1932 unavailable
*Separate data for marine vessels unavailable prior to 1965

AR12-1

SEG news release

Society of Exploration Geophysicists

FOR IMMEDIATE RELEASE

September 5, 1989

Contact: David L. Yowell
or Sally Shank
(918) 493-3516

MONTHLY SEISMIC CREW COUNT

(Month of August, 1989)

According to the Society of Exploration Geophysicists' latest report, the number of seismic land crews and marine vessels searching for oil and gas in the U.S. and U.S. waters increased (for the second consecutive month) during the month of August. The land crew total increased by three to 110, and the marine crew increased by four for a net increase of seven crews to a total of 136.

The August total (136) represents an increase of 5% over last month, a 28% decrease from August, 1988, a 27% decrease from August, 1987, an 13% decrease from August, 1986, a 65% decrease from August, 1985, **a 74% decrease from August, 1984**, and a decrease of 72% from the same month in 1983.

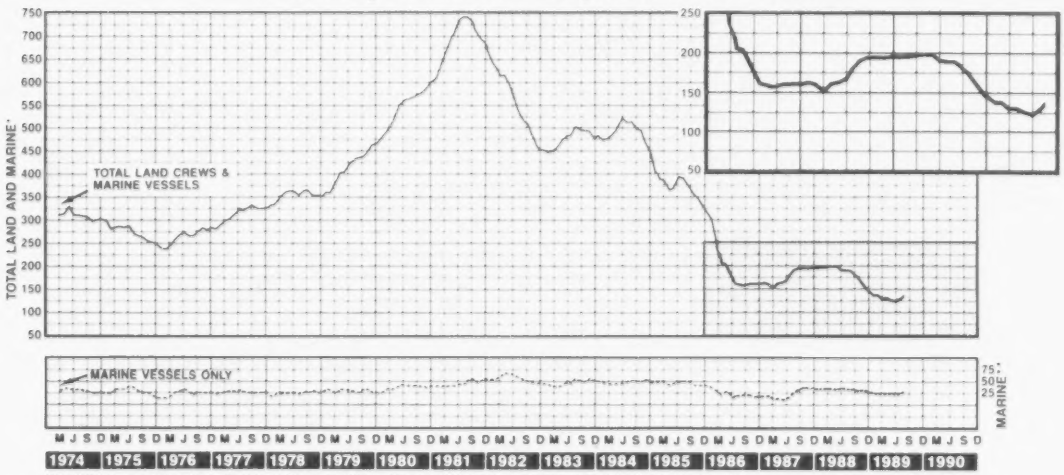
During August, two contractors were operating two of the 100 land crews and none of the twenty-three marine vessels on a speculative basis.

TOTAL LAND & MARINE CREWS:	This Month	Last Month	Aug.'88	Aug.'87	Aug.'86	Aug.'85	Aug.'84	Aug.'83
	136	129	188	187	156	390	523	484

	LAND CREWS								MARINE VESSELS							
	This Mo.	Last Mo.	Aug. 1988	Aug. 1987	Aug. 1986	Aug. 1985	Aug. 1984	Aug. 1983	This Mo.	Last Mo.	Aug. 1988	Aug. 1987	Aug. 1986	Aug. 1985	Aug. 1984	Aug. 1983
36 Contr's:	100	98	141	145	120	308	433	396	23	18	27	25	16	42	45	43
6 Oil Co's:	10	9	15	14	17	33	37	39	3	3	4	3	3	6	7	6
1 Gov't:	0	0	0	0	0	0	0	0	0	1	1	0	0	1	1	0
TOTALS	110	107	156	159	137	341	470	435	26	22	32	28	19	49	53	49

SEISMIC CREW COUNT

(The leading indicator of oil and gas exploration activity.)


TOTAL LAND AND MARINE*
TOTAL LAND CREWS & MARINE VESSELS
MARINE VESSELS ONLY
MARINE**
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1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990

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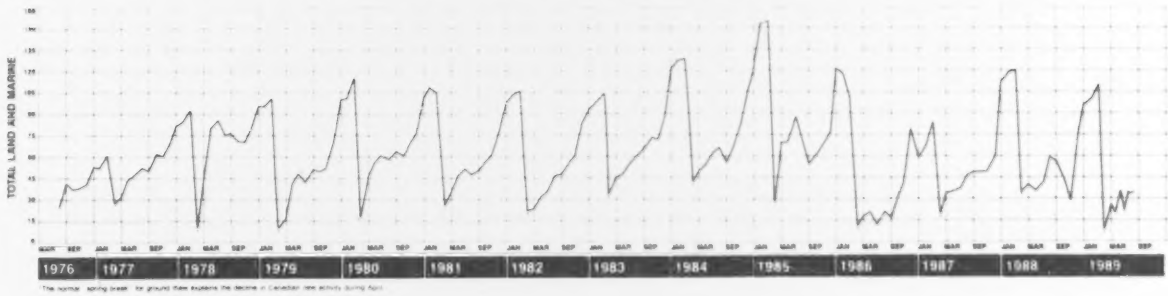
CANADIAN SEISMIC CREW COUNT

August, 1989 (July figures in parentheses)

	Land Crews	Marine Crews
20 Contractors:	30 (34)	3 (0)
1 Oil Company:	1 (1)	0 (0)
Totals:	31 (35)	3 (0)

CANADIAN SEISMIC CREW COUNT
(The leading indicator of oil and gas exploration activity.)



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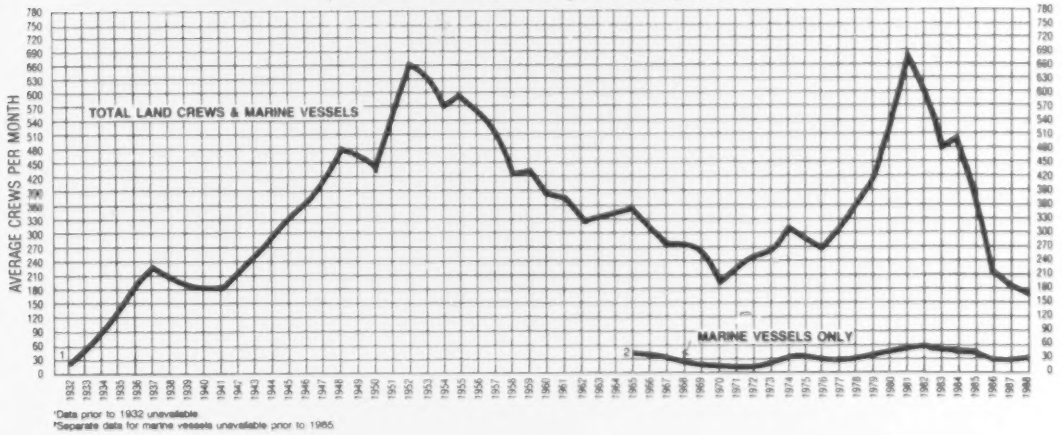
HISTORY OF SEISMIC EXPLORATION IN THE UNITED STATES
(Seismic crews searching for oil & gas.)



[1]Data prior to 1932 unavailable
[2]Separate data for marine vessels unavailable prior to 1985

A8912-1

SEG news release

Society of Exploration Geophysicists

FOR IMMEDIATE RELEASE

October 11, 1989

Contact: David L. Yowell
or Sally Shank
(918) 493-3516

MONTHLY SEISMIC CREW COUNT

(Month of September, 1989)

According to the Society of Exploration Geophysicists' latest report, the number of seismic land crews and marine vessels searching for oil and gas in the U.S. and U.S. waters increased (for the third consecutive month) during the month of September. The land crew total increased by four to 114, but the marine crew decreased by two for a net increase of two crews to a total of 138.

The September total (138) represents an increase of 1% over last month, a 24% decrease from September, 1988, a 28% decrease from September, 1987, an 11% decrease from September, 1986, a 63% decrease from September, 1985, **a 74% decrease from September, 1984**, and a decrease of 72% from the same month in 1983.

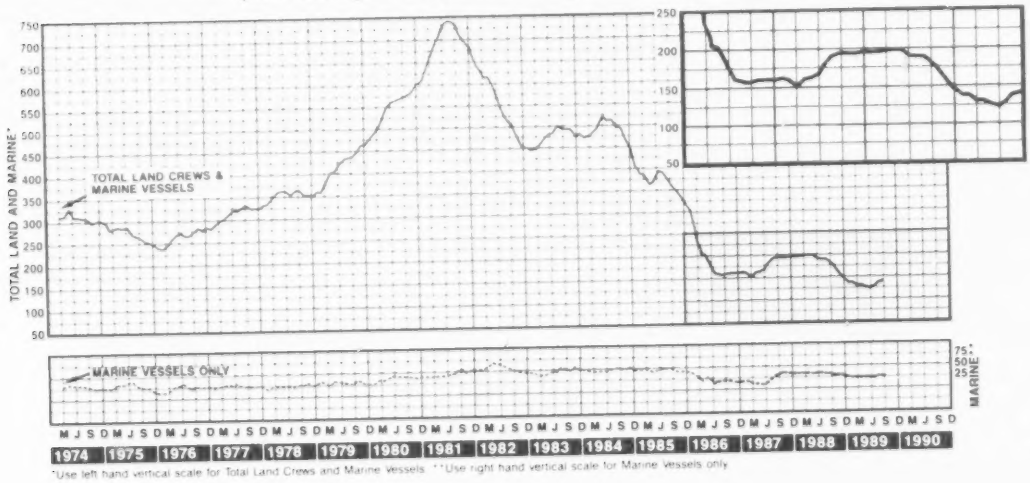
During September, four contractors were operating three of the 104 land crews and one of the twenty-one marine vessels on a speculative basis.

TOTAL LAND & MARINE CREWS:	This Month	Last Month	Sept'88	Sept'87	Sept'86	Sept'85	Sept'84	Sept'83
	138	136	181	193	155	372	524	501

	LAND CREWS								MARINE VESSELS							
	This Mo.	Last Mo.	Sept 1988	Sept 1987	Sept 1986	Sept 1985	Sept 1984	Sept 1983	This Mo.	Last Mo.	Sept 1988	Sept 1987	Sept 1986	Sept 1985	Sept 1984	Sept 1983
40 Contr's:	104	100	136	151	114	290	435	405	21	23	25	26	20	43	44	49
6 Oil Co's:	10	10	15	13	17	33	37	39	3	3	4	3	4	6	7	7
1 Gov't:	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1
TOTALS	114	110	151	164	131	323	472	444	24	26	30	29	24	49	52	57

SEISMIC CREW COUNT

(The leading indicator of oil and gas exploration activity.)


TOTAL LAND AND MARINE*
TOTAL LAND CREWS & MARINE VESSELS
MARINE VESSELS ONLY
MARINE**
M J S D M J S D M J S D M J S D M J S D M J S D M J S D M J S D M J S D M J S D M J S D M J S D M J S D M J S D M J S D M J S D
1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990

*Use left hand vertical scale for Total Land Crews and Marine Vessels. **Use right hand vertical scale for Marine Vessels only.

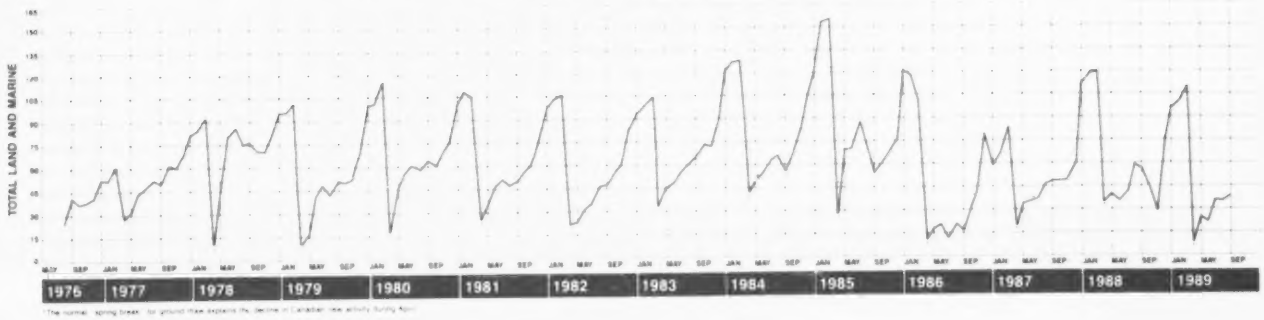
*Results of SEG's Seismic Crew Count of land and marine vessels engaged in exploration for oil and gas in the USA and USA waters, including Alaska, for the month indicated. These figures are compiled from data reported by oil companies operating company-owned seismic exploration crews and vessels and by contract seismic exploration companies. Special significance is attached to seismic crew activity since it is recognized as the leading indicator of all petroleum exploration activity.

CANADIAN SEISMIC CREW COUNT

September, 1989 (August figures in parentheses)

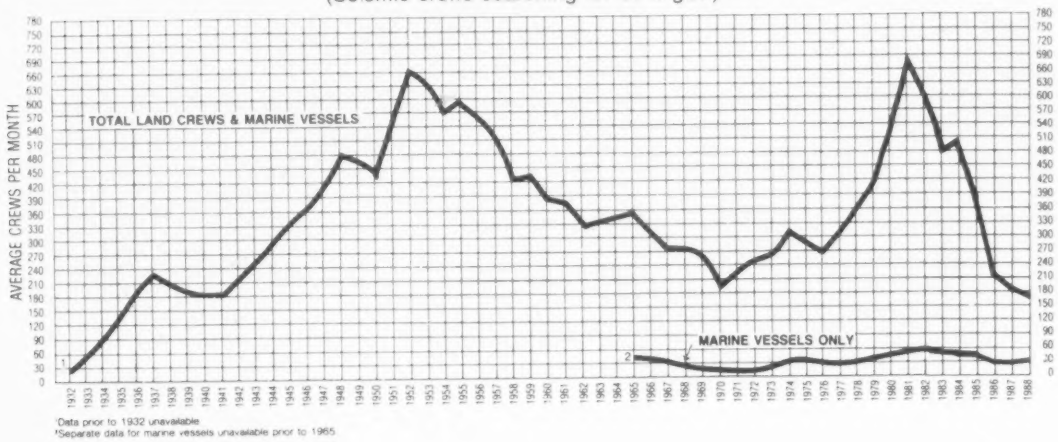
	Land Crews	Marine Crews
24 Contractors:	34 (30)	3 (3)
1 Oil Company:	1 (1)	0 (0)
Totals:	35 (31)	3 (3)

CANADIAN SEISMIC CREW COUNT
(The leading indicator of oil and gas exploration activity.)



SEG's monthly USA Seismic Crew survey was instigated in 1974 at the request of the United States' Federal Energy Administration. The report is currently submitted to the U.S. Department of Energy.

HISTORY OF SEISMIC EXPLORATION IN THE UNITED STATES
(Seismic crews searching for oil & gas.)



[1]Data prior to 1932 unavailable
[2]Separate data for marine vessels unavailable prior to 1965